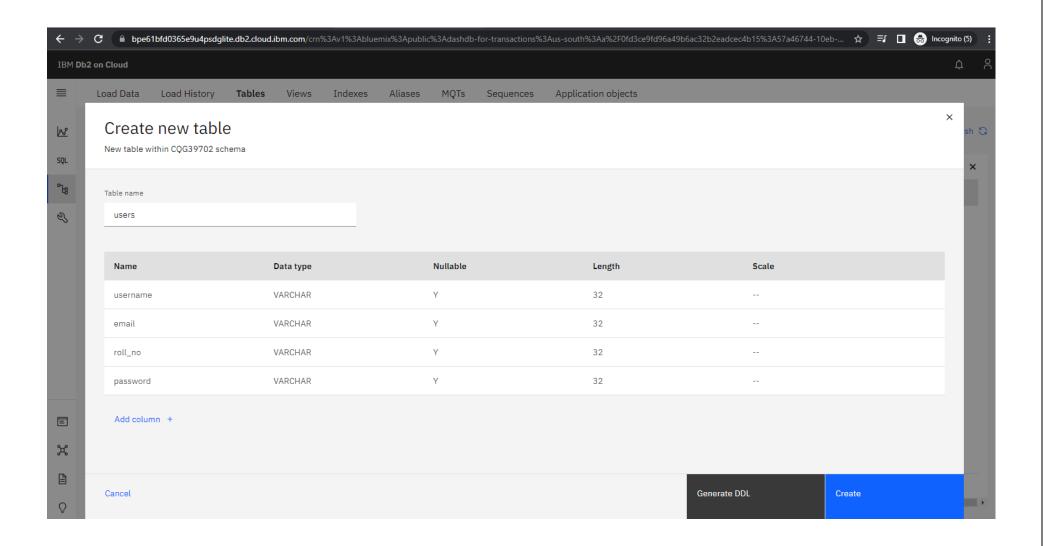
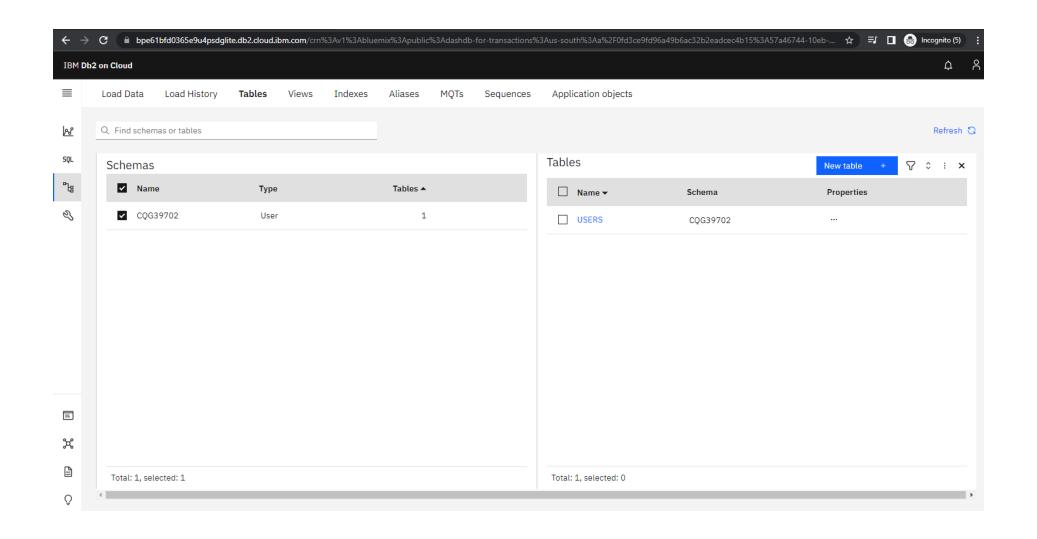
Assignment – 2

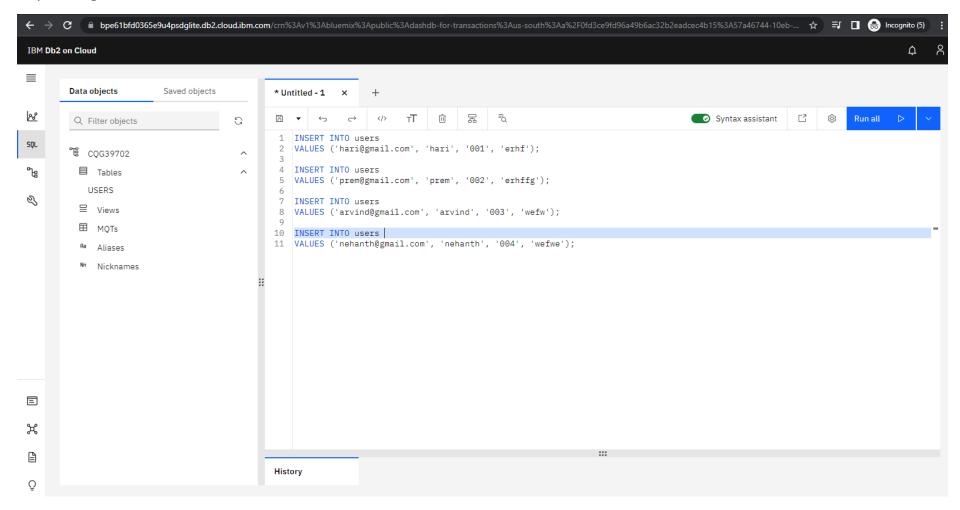
| DATE | 30 th September, 2022 |
|---------------|---|
| TEAM ID | PNT2022TMID35555 |
| PROJECT NAME | Inventory Management System for Retailers |
| MAXIMUM MARKS | 2 Marks |

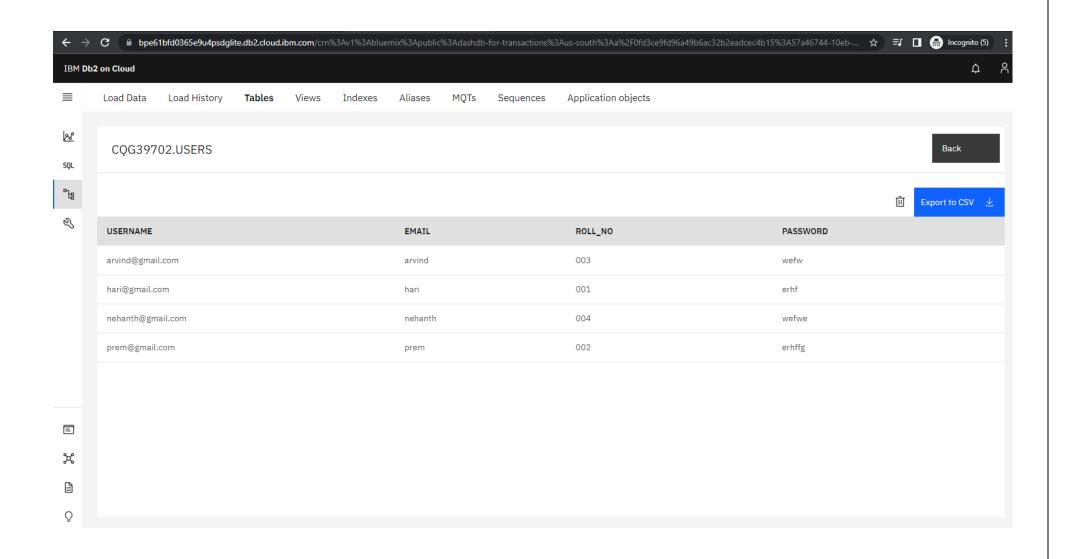
Question 1 Create a table in IBM cloud with username, email, password, roll number



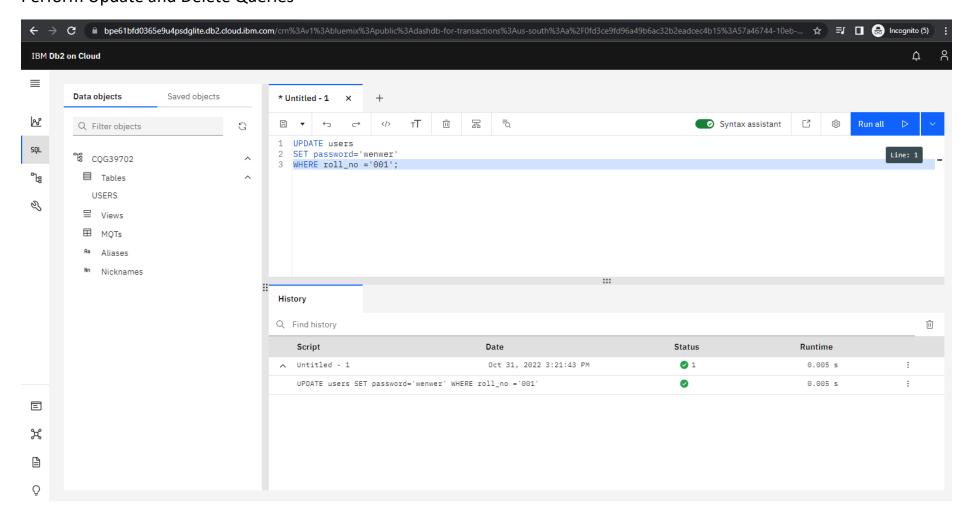


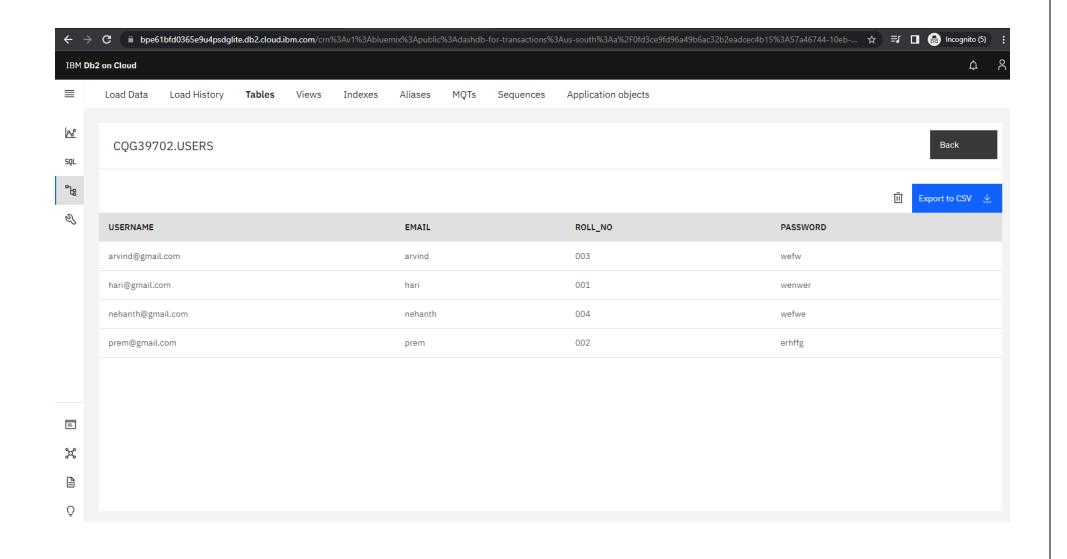
Populating the table

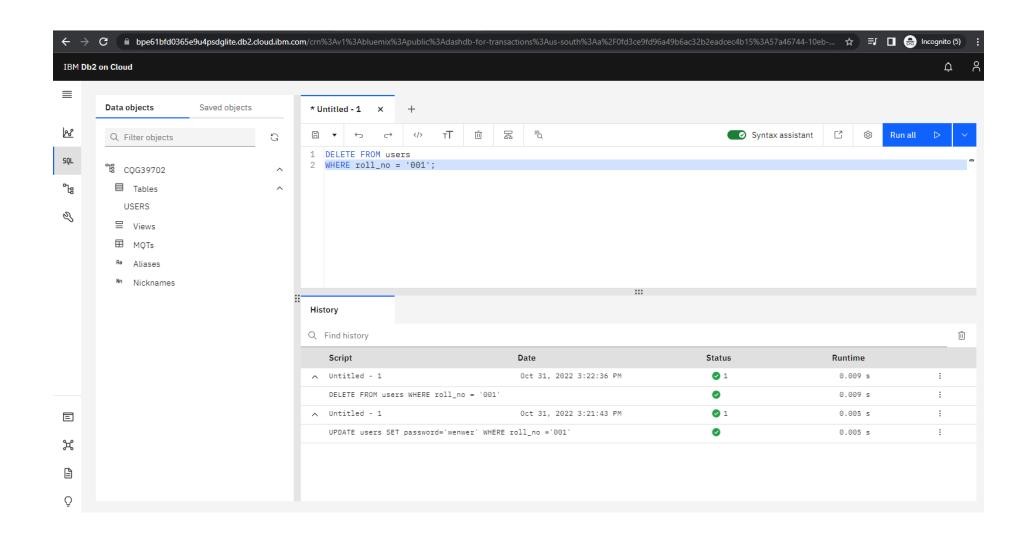




Question 2 Perform Update and Delete Queries







Question 3. Connect python code to db2

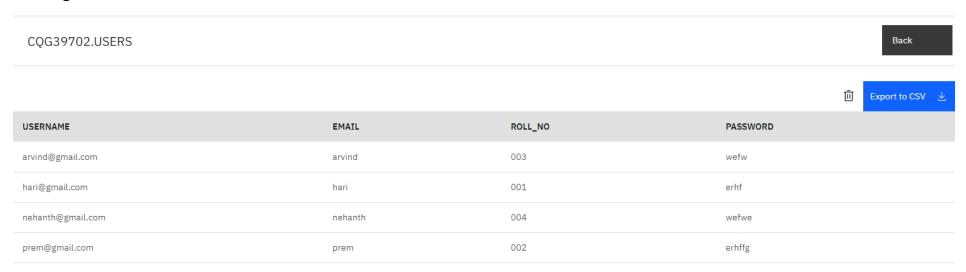
Code:

```
from flask import Flask
import ibm_db
app = Flask(__name__)
try:
    conn = ibm db.connect("DATABASE=bludb; HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0ngnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=cqg39702;PWD=hIRRyoYSNHJxjqQq", "", "")
except:
    print("Unable to connect: ", ibm_db.conn_error())
@app.route("/")
def dashboard():
    return "Connected to the Database!"
if __name__ == '__main__':
    app.run(debug=True)
```

Question 4.

Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate username and password. If the user is valid show the welcome page.

Existing database:



App.py

```
from flask import Flask, render template, request, redirect, url for, session, flash
import ibm_db
app = Flask( name )
app.secret key = 'qwdqwjdjecnwj'
try:
    conn = ibm db.connect("DATABASE=bludb;HOSTNAME=b0aebb68-94fa-46ec-a1fc-
1c999edb6187.c3n41cmd0nqnrk39u98g.databases.appdomain.cloud;PORT=31249;SECURITY=SSL;SSLServerCertificate=
DigiCertGlobalRootCA.crt;UID=cqg39702;PWD=hIRRyoYSNHJxjqQq", "", "")
except:
    print("Unable to connect: ", ibm db.conn error())
@app.route("/")
def dash():
    return render_template('register.html', msg=" ")
@app.route("/register", methods=['GET', 'POST'])
def register():
    error = None
    if request.method == 'POST':
        username = request.form['username']
        email = request.form['email']
        roll_number = request.form['rollnumber']
```

```
password = request.form['password']
        sql = "SELECT * FROM users WHERE roll no=?"
        prep stmt = ibm db.prepare(conn, sql)
        ibm db.bind param(prep stmt, 1, roll number)
        ibm db.execute(prep stmt)
        account = ibm db.fetch assoc(prep stmt)
        print(account)
        if account:
            error = "Account already exists! Log in to continue !"
        else:
            insert sql = "INSERT INTO users values(?,?,?,?)"
            prep stmt = ibm db.prepare(conn, insert sql)
            ibm db.bind param(prep stmt, 1, email)
            ibm db.bind param(prep stmt, 2, username)
            ibm db.bind param(prep stmt, 3, roll number)
            ibm db.bind param(prep stmt, 4, password)
            ibm db.execute(prep stmt)
            flash(" Registration successful. Log in to continue !")
    return render template('login.html', error=error)
@app.route('/login', methods=['GET', 'POST'])
def login():
    error = None
    account = None
    if request.method == 'POST':
       username = request.form['username'].strip()
```

```
password = request.form['password'].strip()
        print(username, password)
        sql = "SELECT * FROM users WHERE username=? AND password=?"
        stmt = ibm db.prepare(conn, sql)
        ibm db.bind param(stmt, 1, username)
        ibm_db.bind_param(stmt, 2, password)
        ibm db.execute(stmt)
        account = ibm db.fetch assoc(stmt)
        print(account)
    if account:
        session['Loggedin'] = True
        session['id'] = account['USERNAME']
        session["username"] = account["USERNAME"]
        flash("Logged in successfully!")
        return redirect(url for("welcome page"))
    else:
        error = "Incorrect username / password"
        return render template('login.html', error=error)
@app.route('/welcome')
def welcome page():
    return render template("welcome.html", user=session['id'])
if __name__ == '__main__':
    app.run(debug=True)
```

register.html

```
<html>
<head>
   <title>Registration page</title>
   <link rel="stylesheet" href="{{url for('static', filename='style.css')}}">
</head>
<body>
   <div class="center"> <br /><br />
       <form action="/register" method="POST">
           <h2>Student Registration Portal</h2> <br /><br />
            Enter Email ID:
           <input type="email" name="email" />
            Enter Username:
           <input type="text" name="username" />
            Enter Password:
           <input type="password" name="password" />
            Enter Roll number:
           <input type="text" name="rollnumber" /> </br></br></pr>
           <input type="submit" value="submit" />
       </form>
```

```
</bdv>
</body>
</html>
```

login.html

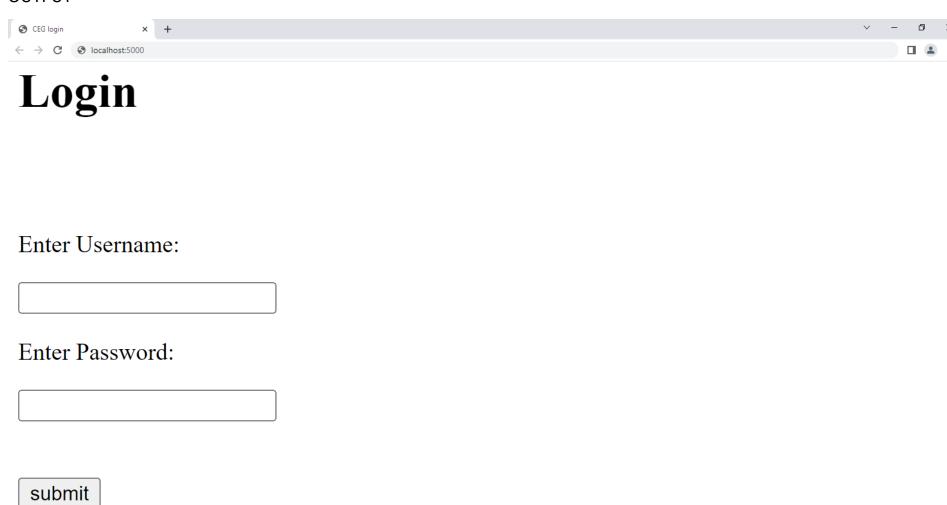
```
<html>
<head>
   <title>CEG login</title>
   <link rel="stylesheet" href="{{url_for('static', filename='style.css')}}">
</head>
<body>
   {% if error %}
   <strong style="color:blue">Error</strong>: {{error}} {% endif %}
   {% with messages = get flashed messages() %}
   {% if messages %}
   {% for message in messages %}
   <h2 style="color:green">{{ message }}</h2> {% endfor %}
   {% endif %} {% endwith %}
   <div class="center"> <br /><br />
       <form action="/login" method="POST">
           <h1>Login</h1> <br /><br />
```

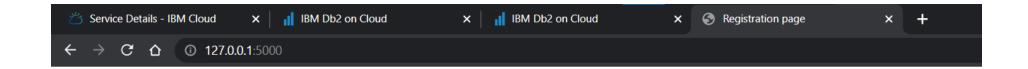
welcome.html

Style.css

```
body{
    color: black;
    margin: auto;
h2 {
    text-align: center;
input {
    padding: 7px;
```

OUTPUT





Student Registration Portal

| Enter Email ID: |
|--------------------|
| hari@abc.com |
| Enter Username: |
| Harishankar |
| Enter Password: |
| ••• |
| Enter Roll number: |
| |
| 65 |



Registration successful. Log in to continue!

Login

| Enter Username: | |
|-----------------|--|
| | |
| Enter Password: | |
| | |
| submit | |

